

DOCKET NO: 293717US0PCT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :
AKIHIKO FUJII, ET AL. : EXAMINER: KING, FELICIA C.
SERIAL NO: 10/587,258 :
FILED: JULY 26, 2006 : GROUP ART UNIT: 1794
FOR: COFFEE DRINK COMPOSITION :

DECLARATION UNDER 37 C.F.R. §1.132

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

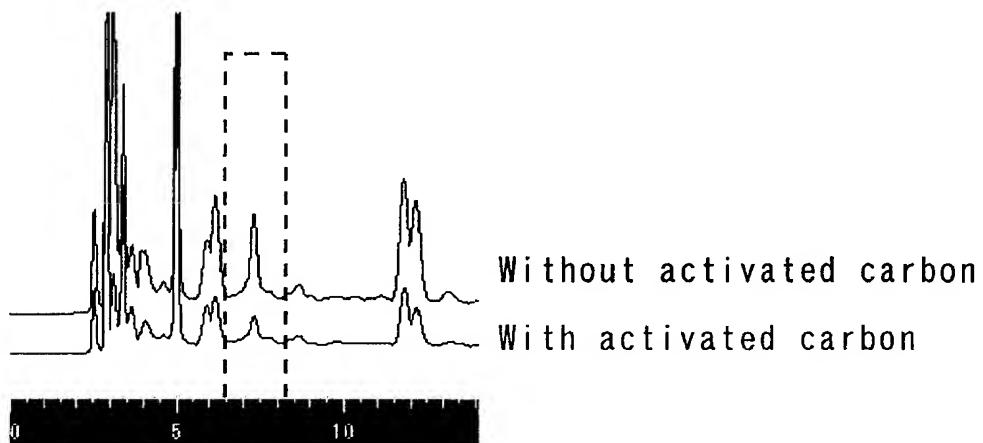
Now comes Mr. Hideo Ohminami who deposes and declares that:

1. I am a graduate of Kyoto Pharmaceutical University and received my master's degree in the year 2001.
2. I have been employed by the Kao Corporation for the past 8 years, as a researcher in the field of organic chemistry.
3. I am a named inventor of the above-identified application.
4. The following experiments were conducted by me or under my direct supervision and control.

10 g of ground Costa-Rican coffee beans (medium roasted, medium grind) were intimately mixed with 1.25 g of activated carbon (Shirasagi WH2c 42/60(coconut husk 1-5 Angstrom of pore size)). 25 mL of boiling water was poured onto the mixture and after 5 minutes of standing still, coffee beans and activated carbon were removed by filtration. The

hydroxyhydroquinone (HHQ) and chlorogenic acid contents were determined by HPLC as follows:

	Without activated carbon (reference)	With activated carbon
Content of HHQ	0.00399 wt%	0.00227 wt%
HHQ residual ratio	100 %	56.9 %
Content of chlorogenic acid	0.72271 wt%	0.51385 wt%
Chlorogenic acid residual ratio	100 %	71.1 %
Ratio of HHQ / chlorogenic acid	0.55 %	0.44 %



I declare under penalty of perjury under the laws of the United States of America that the foregoing is believed to be true and correct. 28 USC 1746(1)

Hideo Ohminami
Hideo Ohminami

Mar. 3, 2010
Date